

WHAT IS CLAIMED IS:

1. A music rack used for keeping a document thereon comprising
a desk board on which said document is put and changed from a rest position through a maximum attitude angle position to a release position, and
an attitude changing system provided between a stationary member and said desk board, permitting said desk board to unidirectionally change the position from said rest position to said maximum attitude angle position and allowing said desk board to return to said rest position when said desk board reaches the release position.
2. The music rack as set forth in claim 1, in which said attitude changing system includes
a shaft connected at one end thereof to said desk board, and
a mechanic box secured to said stationary member and having a mechanism connected to the other end of said shaft, enabled in a first angular range between said rest position and said release position so as to permit said shaft to rotate only in a first direction and disabled at said release position so as to permit said shaft to rotate in a second direction opposite to said first direction until said shaft reaches said rest position.
3. The music rack as set forth in claim 2, in which said attitude changing system further includes at least one hinge connected at one end thereof to said stationary member and at the other end thereof to said desk board so as to permit said desk board to rotate in said first direction and said second direction.



4. The music rack as set forth in claim 2, in which said mechanism gives a resistance against the rotation in the second direction.

5. The music rack as set forth in claim 1, in which said attitude changing system includes

plural shafts having first end portions connected to said desk board, and plural mechanic boxes secured to said stationary member and having respective mechanisms connected to second end portions of said plural shafts, enabled in a first angular range between said rest position and said release position so as to permit said shaft to rotate only in a first direction and disabled at said release position so as to permit said shaft to rotate in a second direction opposite to said first direction until said desk board reaches said rest position.

6. The music rack as set forth in claim 5, in which said attitude changing system further includes

a first detector for producing a first detecting signal when said desk board reaches said release position,

a second detector for producing a second detecting signal when said desk board reaches said rest position, and

a controller responsive to said first detecting signal so as to disable said mechanism with a driving signal of an inactive level and to said second detecting signal so as to enable said mechanism with said driving signal of an active level.

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7. The music rack as set forth in claim 5, in which said mechanism gives a resistance against the rotation in the second direction.

8. A musical instrument comprising

a case having plural boards assembled for defining an inner space,

a keyboard placed on one of said plural boards in such a manner that a player fingers thereon,

a tone generating system accommodated in said inner space and connected to said keyboard for generating tones in response to the fingering, and

a music rack provided on another of said plural boards and including a desk board on which said document is put and changed from a rest position through a maximum attitude angle position to a release position and an attitude changing system provided between a stationary member and said desk board, permitting said desk board to unidirectionally change the position from said rest position to said maximum attitude angle position and allowing said desk board to return to said rest position when said desk board reaches the release position.

9. The musical instrument as set forth in claim 8, in which said attitude changing system includes

a shaft connected at one end thereof to said desk board, and

a mechanic box secured to said stationary member and having a mechanism connected to the other end of said shaft, enabled in a first angular range between said rest position and said release position so as to permit said shaft to rotate only in a first direction and disabled at said release position so as to

permit said shaft to rotate in a second direction opposite to said first direction until said shaft reaches said rest position.

10. The musical instrument as set forth in claim 9, in which said attitude changing system further includes at least one hinge connected at one end thereof to said stationary board and at the other end thereof to said desk board so as to permit said desk board to rotate in said first direction and said second direction.

11. The musical instrument as set forth in claim 9, in which said mechanism gives a resistance against the rotation in the second direction.

12. The musical instrument as set forth in claim 8, in which said attitude changing system includes

plural shafts having first end portions connected to said desk board, and plural mechanic boxes secured to said stationary member and having respective mechanisms connected to second end portions of said plural shafts, enabled in a first angular range between said rest position and said release position so as to permit said shaft to rotate only in a first direction and disabled at said release position so as to permit said shaft to rotate in a second direction opposite to said first direction until said shaft reaches said rest position.

13. The musical instrument as set forth in claim 12, in which said attitude changing system further includes

a first detector for producing a first detecting signal when said desk board reaches said release position,

a second detector for producing a second detecting signal when said desk board reaches said rest position, and

a controller responsive to said first detecting signal so as to disable said mechanism with a driving signal of an inactive level and to said second detecting signal so as to enable said mechanism with said driving signal of an active level.

14. The musical instrument as set forth in claim 12, in which said mechanism gives a resistance against the rotation in the second direction.

15. The musical instrument as set forth in claim 8, in which said tone generating system includes

plural action units actuated by the keys of said keyboard, respectively, plural hammers respectively driven for rotation by said plural action units when said keys actuate the associated action units, and plural strings struck by said plural hammers for generating tones.

16. A music rack used for keeping a document thereon comprising

a desk board on which said document is put and changed from a rest position through a maximum attitude angle position to a release position, and

an attitude changing system provided between a stationary member and said desk board, permitting said desk board to change the position from said rest position to said maximum attitude angle position when a force is exerted on said desk board and keeping said desk board at any position between said rest position and said maximum attitude angle position when said force is removed from said desk board.